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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
11/18/2003	Manne Satyanarayana Reddy	U 014892-1	4841	
7590 03/14/2005		EXAMINER		
DR. REDDY'S LABORATORIES, INC.			HABTE, KAHSAY	
	D .	ART UNIT	PAPER NUMBER	
		1624		
]	11/18/2003 7590 03/14/2005 ''S LABORATORIES	11/18/2003 Manne Satyanarayana Reddy 7590 03/14/2005 T'S LABORATORIES, INC. ET CORPORATE BLVD LOOR,	11/18/2003 Manne Satyanarayana Reddy U 014892-1 7590 03/14/2005 EXAM T'S LABORATORIES, INC. ET CORPORATE BLVD COOR, ART UNIT	

DATE MAILED: 03/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/716,207	REDDY ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Kahsay Habte, Ph. D.	1624			
7 Period for F	The MAILING DATE of this communication Reply	appears on the cover sheet wi	th the correspondence addr	ess		
THE MA - Extension after SIX - If the peri - If NO per - Failure to Any reply	RTENED STATUTORY PERIOD FOR RE ILING DATE OF THIS COMMUNICATION TO SELECTION TO SELECTION OF THIS COMMUNICATION TO SELEC	N. R 1.136(a). In no event, however, may a r reply within the statutory minimum of thin iod will apply and will expire SIX (6) MON atute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this commander of the commander of	nunication.		
Status						
1)□ Re	esponsive to communication(s) filed on _	.				
2a) <u></u> ⊤h	nis action is FINAL . 2b)⊠ 1	his action is non-final.		•		
-	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition	of Claims					
4a) 5)□ Cl 6)⊠ Cl 7)□ Cl	aim(s) <u>1-9</u> is/are pending in the application Of the above claim(s) is/are with aim(s) is/are allowed. aim(s) <u>1-9</u> is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction are	drawn from consideration.				
		a/or election requirement.				
Application		•				
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 18 November 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority und	ler 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of 2) Notice of 3) Informati	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) Draftsperson's Patent Drawing Review (PTO-948) Draftsperson's PTO-1449 or PTO/SB Draftsperson Disclose Control PTO/SB Draftsperson Disclose Control PTO/SB	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-1 	52)		

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DETAILED ACTION

1. Claims 1-9 are pending in this application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Hayakawa et al. (U.S. Pat. No. 5,053,407). Cited reference at column 14, lines 5-45 (EXAMPLE 6) discloses S(-)-9-Fluoro-2,3-dihydro-3-Methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid crystal compound that is the same as applicants.

Claims 1-5 are product claims, in which applicants recite some of the physical and chemical characteristics of the said product. MPEP 2112 says:

"SOMETHING WHICH IS OLD DOES NOT BECOME PATENTABLE UPON THE DISCOVERY OF A NEW PROPERTY

The claiming of a new use, new function or unknown property which is inherently present in the prior art does not necessarily make the claim patentable. In re Best, 562 F.2d 1252, 1254, 195 USPQ 430, 433 (CCPA 1977)."

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In this case, the "unknown property" is the particular crystalline form with X-ray diffraction pattern and with Infra Red (IR) spectra containing peaks. This is unknown because the reference is silent on this property. MPEP 2112 goes on to state:

"A REJECTION UNDER 35 U.S.C. 102/103 CAN BE MADE WHEN THE PRIOR ART PRODUCT SEEMS TO BE IDENTICAL EXCEPT THAT THE PRIOR ART IS SILENT AS TO AN INHERENT CHARACTERISTIC

Where applicant claims a composition in terms of a function, property or characteristic and the composition of the prior art is the same as that of the claim but the function is not explicitly disclosed by the reference, the examiner may make a rejection under both 35 U.S.C. 102 and 103, expressed as a 102/103 rejection."

Again, the "CHARACTERISTIC" which the prior art is silent on is the anhydrous crystalline form.

This is not an ordinary inherency situation where it is not explicitly stated what the product actually is. Here the reference explicitly teaches exactly what the compound is. The only difference is a characteristic about which the reference happens to be silent. See also Ex parte Anderson, 21 USPQ 2nd 1241 at 1251.

Applicants are reminded that the PTO has no testing facilities. If applicants' reasoning were accepted, then <u>any</u> anticipation rejection of an old compound could <u>always</u> be overcome by tacking on some characteristic or property which the reference was silent on, regardless of whether the prior art material was any different from the claimed material.

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Note that the prior art compound has the following data: NMR, MS, optical rotation and melting point. Applicant's disclosure has none of these data, but instead it discloses IR and X-ray powder diffraction data. Applicants can overcome the 102(b) rejection, by showing that their anhydrous crystalline form of Levofloxacin is different from the prior art compound.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention:

- a. Regarding claim 6, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d). It is recommended that applicants replace said phrase "selected from the group consisting of acetonitrile and propionitrile".
- b. Regarding claim 6, the phrase "preferably" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed

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invention. See MPEP § 2173.05(d). It is recommended that applicants delete "preferably acetonitrile", "preferably toluene" and "preferably at 40-50°C" from claim 6.

c. In claim 9, the phrase "The processof Levofloxacin is substantially as herein described and exemplified" is indefinite. Note that there lack of antecedent basis for the recitation of "The process". What process? Described where? Exemplified where? This claim is garbled. It is recommended that applicants clarify what "The processof Levofloxacin is substantially as herein described and exemplified" mean.

Claim Objections

- 4. Claim 1 is objected to because of the following informalities: there is no period at the end of the claim.
- 5. Claims 1 and 6 are objected because of the term "novel". The US Patent Office and Trademark decides whether an invention is "novel" or not, before issuing a patent to applicants. It is premature to label "novel" for an invention at the time of filing, since the invention was not examined for its novelty. Note that applicants did not distinguish in the claims a "novel" Levofloxacin from a known Levofloxacin. It is recommended that applicants delete this term to overcome this objection.
- 6. Claim 6 is objected to because of the following informalities: in claim 6 step (i) the nomenclature of Anhydrous Levofloxacin: S(-)-9-Fluoro-2,3-dihydro-3-Methyl-10-(4-

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methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-DE]-1,4-benzoxazine-6-carboxylic acid is not consistent with the nomenclature recited in claim 1. It should read as "S(-)-9-Fluoro-2,3-dihydro-3-Methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid". The "[1,2,3-DE]" portion of the nomenclature should read as "1,2,3-de]".

Closest Prior Art

- 7. The closest prior art for the process of preparing anhydrous Levofloxacin is Hayakawa et al. (US Pat. No. 5,545,737). Hayakawa et al. discloses the process of preparing Levofloxacin by the process that comprises the condensation of N-methyl piperazine with S(-)-9-Fluoro-2,3-dihydro-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid in Dimethyl sulfoxide followed by the isolation of the Levofloxacin by chromatography. The instant application differs from the prior art:
- a. It uses Acetonitrile instead of Dimethyl sulfoxide
- b. The residue from the condensation is refluxed in toluene to afford a solid
- c. Further the solid is refluxed in Acetonitrile to afford the anhydrous crystalline form.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kahsay Habte, Ph. D. whose telephone number is (571) 272-0667. The examiner can normally be reached on M-F (9.00AM- 5:30PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mukund Shah can be reached on (571) 272-0674, if there is no reply within 24 hours, James Wilson (Acting SPE) can be reached at (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kańsay Habté, Ph. D. Patent Examiner

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KH March 7, 2005